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Docket No. 700953-5444

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Dennis L. Panicali et al.

Application No.: 10/660,369

Group No.: 1614

Filed: 09/11/2003

Examiner: To be assigned

For: TRANSDUCED NEOPLASTIC CELL PREPARATIONS ABLE TO EXPRESS T-CELL
COSTIMULATORY MOLECULES B7.1, ICAM-1 AND LFA-3 AND INDUCE
IMMUNOSTIMULATORY PROPHYLACTIC AND THERAPEUTIC ANTI-TUMOR
EFFECTS IN VIVO

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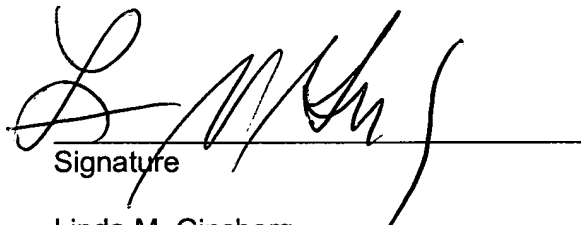
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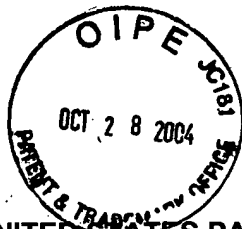
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Linda M. Ginsberg
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Docket No. 700953-54440

PATENT



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Alexandria, VA 22313-1450

CHANGE OF ATTORNEY'S ADDRESS IN APPLICATION

Please send all correspondence for this application as follows:

Ronald I. Eisenstein
NIXON PEABODY LLP
100 Summer Street
Boston, MA 02110

Please direct telephone calls to:

(617) 345-6054

SIGNATURE OF PRACTITIONER

Ronald I. Eisenstein (Reg. No. 30,628)

Nicole L.M. Valtz (Reg. No. 47,150)

NIXON PEABODY LLP

100 Summer Street

Boston, MA 02110



PTO/SB/21 (09-04)
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|---|------------------------|--------------------|
| TRANSMITTAL FORM (to be used for all correspondence after initial filing) | Application Number | 10/660,369 |
| | Filing Date | September 11, 2003 |
| | First Named Inventor | Dennis L. Panicali |
| | Art Unit | 1614 |
| | Examiner Name | To be assigned |
| | Attorney Docket Number | 700953-54440 |
| Total Number of Pages in This Submission | | |

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| <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input type="checkbox"/> Amendment/Reply | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
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| <input type="checkbox"/> Affidavits/declaration(s) | <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter |
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| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | | |
|--|--|------------------------|
| Firm Name | Nixon Peabody LLP, 100 Summer Street, Boston, MA 02110 | |
| Signature | | |
| Printed name | Ronald I. Eisenstein/Nicole L.M. Valtz | |
| Date | Oct. 26, 2004 | Reg. No. 30,628/47,150 |

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| Typed or printed name | Linda M. Ginsberg | Date 10/26/2004 |

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Docket No. 700953-54440

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Dennis L. Panicali et al.

Application No.: 10/660,369

Group No.: 1614

Filed: 09/11/2003

Examiner: To be assigned

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Date: October 26, 2004


Linda M. Ginsberg

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. §§1.56 and 1.97, Applicants herewith
submit the publications and/or patents shown on the attached forms PTO/SB/08a and b, for
consideration by the Examiner in connection with the examination of the above-identified patent
application.

I. REMARKS

In accordance with the provisions of 37 C.F.R. §1.97, this statement is being filed:

- X (1) within three (3) months of the Filing Date or **before the mailing date of
the First Office Action** on the merits; or
- (2) within three months of the mailing date of the PCT International Search
Report; or

- (3) after the period defined in (1) but before the mailing date of a **Final Rejection** or **Notice of Allowance**, and the requisite Certification or fee under Rule 1.17(p), namely **\$180.00**, is included herein; or
- (4) after the mailing date of a **Final Rejection** or **Notice of Allowance** but before the payment of the **Issue Fee**, and the requisite Certification, petition, and petition fee are included herein.

It is respectfully requested that each of the documents shown on the attached form(s) PTO/SB/08a and b be made of record in this application. Copies of these documents (CHECK ONE):

- X are enclosed herewith; and
- have been cited in the parent application, and are thus not being resubmitted herein.

Early examination and allowance of the present application are respectfully solicited.

FEE AUTHORIZATION

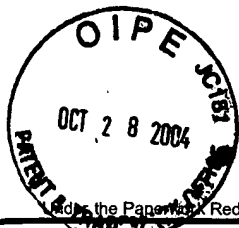
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Respectfully submitted,



Ronald I. Eisenstein (Reg. No. 30,628)
Nicole L.M. Valtz (Reg. No. 47,150)
NIXON PEABODY LLP
100 Summer Street
Boston, MA 02110
(617) 345-6054

Date: October 26, 2004



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

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| | |
|------------------------|--------------------|
| Application Number | 10/660,369 |
| Filing Date | 09/11/2003 |
| First Named Inventor | Dennis L. Panicali |
| Art Unit | 1614 |
| Examiner Name | To be assigned |
| Attorney Docket Number | 700953-54440 |

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| | A1 | US- 6,045,802 | 04/04/2000 | Jeffrey Schlom et al. | |
| | A2 | US- 6,548,068 B1 | 04/15/2003 | Jeffrey Schlom et al. | |
| | A3 | US- 2004/0019195 A1 | 01/29/2004 | Jeffrey Schlom et al. | |
| | A4 | US- 2004/0091995 A1 | 05/13/2004 | Jeffrey Schlom et al. | |
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FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
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| | | Application Number | 10/660,369 | | |
| | | Filing Date | 09/11/2003 | | |
| | | First Named Inventor | Dennis L. Panicali | | |
| | | Art Unit | 1614 | | |
| | | Examiner Name | To be assigned | | |
| Sheet | 1 | of | 2 | Attorney Docket Number | 700953-54440 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | C1 | BJARNE BOGEN ET AL., "Processing and Presentation of Idiotypes to MHC-Restricted T Cells," Intern. Rev. Immunol., Vol. 10, p. 337-355, (1993). | |
| | C2 | BJARNE BOGEN, "Idiotope-specific T cell clones that recognize syngeneic immunoglobulin fragments in the context of class II molecules," Eur. J. Immunol., Vol. 16, p. 1373-1378, (1986). | |
| | C3 | STEPHANIE A. CAMACHO ET AL., "A key role for ICAM-1 in generating effector cells mediating inflammatory responses," Nature Immunology, Vol. 2 (No. 6), p. 523-529, (2001). | |
| | C4 | MICHAEL CROFT ET AL., "Naive Versus Memory CD4 T Cell Response to Antigen," Journal of Immunology, Vol. 152, p. 2675-2685, (1994). | |
| | C5 | MATTHEW J. DEETHS ET AL., "ICAM-1 and B7-1 provide similar but distinct costimulation for CD8+ T cells, while CD4+ T cells are poorly costimulated by ICAM-1," Eur. J. Immunol., Vol. 29, p. 45-53, (1999). | |
| | C6 | KYRIAKI DUNUSSI-JOANNOPOULOS ET AL., "Irradiated B7-1 Transduced Primary Acute Myelogenous Leukemias (AML) Cells Can Be Used as Therapeutic Vaccines in Murine AML," Vol. 87 (No. 1), p. 2938-2946, (1996). | |
| | C7 | KARL ERIK HELLSTROM ET AL., "On the Role Costimulation in Tumor Immunity," Annals New York Academy of Sciences, Vol. 690, p. 225-230, (1993). | |
| | C8 | JAMES W. HODGE ET AL., "A Triad of Costimulatory Molecules Synergize to Amplify T-Cell Activation," Cancer Research, Vol. 59, p. 5800-5807, (November 15, 1999). | |
| | C9 | KAZUNORI KATO ET AL., "Gene Transfer of CD40-Ligand Induces Autologous Immune Recognition of Chronic Lymphocytic Leukemia B Cells," J. Clin. Invest., Vol. 101 (No. 5), p. 1133-1141, (March, 1998). | |
| | C10 | DAVID N. LIEBOWITZ ET AL., "Costimulatory approaches to adoptive immunotherapy," Current Opinion in Oncology, Vol. 10, p. 533-541, (1998). | |

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|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

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**INFORMATION DISCLOSURE
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| Application Number | 10/660,369 |
| Filing Date | 09/11/2003 |
| First Named Inventor | Dennis L. Panicali |
| Art Unit | 1614 |
| Examiner Name | To be assigned |
| Attorney Docket Number | 700953-54440 |

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|---|----------------|
| | C11 | EDUARDO PARRA ET AL., "The Role of B7-1 and LFA-3 in Costimulation of CD8+ T Cells," The Journal of Immunology, Vol. 158, p. 637-642, (1997). | |
| | C12 | JOACHIM L. SCHULTZE ET AL., "Follicular lymphomas can be induced to present alloantigen efficiently: A conceptual model to improve their tumor immunogenicity," Proc. Natl. Acad. Sci. USA, Vol. 92, p. 8200-8204, (August, 1995). | |
| | C13 | JOACHIM L. SCHULTZE, "Why Do B Cell Lymphoma Fail to Elicit Clinically Sufficient T Cell Immune Responses," Leukemia and Lymphoma, Vol. 32 (No. 3-4), p. 223-236, (1999). | |
| | C14 | SARAH E. TOWNSEND ET AL., "Tumor Rejection After Direct Costimulation of CD8+ T Cells by B7-Transfected Melanoma Cells," Science, Vol. 259, p. 368-370, (January 15, 1993). | |
| | C15 | ANTONELLA VIOLA ET AL., "T Cell Activation Determined by T Cell Receptor Number and Tunable Thresholds," Science, Vol. 273, p. 104-106, (July 5, 1996). | |
| | C16 | ANETTE GJORLOFF WINGREN ET AL., "T Cell Activation Pathways: B7, LFA-3, and ICAM-1 Shape Unique T Cell Profiles," Critical Reviews in Immunology, Vol. 15 (No. 3&4), p. 235-253, (1995). | |
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